PATENT COOPERATION TREATY PCT

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 12531680	FOR FURTHER ACTION	See Form PCT/IPEA/416	
International application No.	International filing date (day/month/)		
PCT/AU2004/001522	5 November 2004	7 November 2003	
International Patent Classification (IPC) or	national classification and IPC	. · · ·	
Int. Cl. G01N 33/58 (2006. C12Q 1/70 (2006.01) G01N	.01) <i>C12Q 1/68</i> (2006.01) <i>G01N 33.</i> V <i>33/577</i> (2006.01)	2/566 (2006.01) C07K 17/14 (2006.01)	
Applicant .			
HEPGENICS PTY LTD et al			
•	•	·	
This report is the international prelimir Authority under Article 35 and transmit	nary examination report, established by itted to the applicant according to Artic	this International Preliminary Examining le 36.	
2. This REPORT consists of a total of 6			
3. This report is also accompanied by AN		•	
-	he International Bureau) a total of 10	sheets, as follows:	
sheets containing rectific Administrative Instruction Administrative Instruction Sheets which supersede the disclosure in the interpolation Box. b. (sent to the International Bure a sequence listing and/or table)	cations authorized by this Authority (secons). carlier sheets, but which this Authority (rnational application as filed, as indicated and only) a total of (indicate type and me related thereto, in electronic form only)	considers contain an amendment that goes beyond ted in item 4 of Box No. I and the Supplemental umber of electronic carrier(s)), containing y, as indicated in the Supplemental Box Relating to	
Sequence Listing (see Section	1 802 of the Administrative Instructions	3).	
4. This report contains indications relation			
X Box No. I Basis of the rep	ort		
X Box No. II Priority			
X Box No. III Non-establishm	ent of opinion with regard to novelty, i	inventive step and industrial applicability	
Box No. IV Lack of unity of invention			
X Box No. V Reasoned states citations and ex	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
X Box No. VI Certain docume	ents cited	•	
Box No. VII Certain defects	in the international application		
Box No. VIII Certain observa	ations on the international application		
Date of submission of the demand	Date of com	pletion of this report	
7 September 2005	17 January		
Name and mailing address of the IPEA/AU	Authorized Of		
AUSTRALIAN PATENT OFFICE	.•		
PO BOX 200, WODEN ACT 2606, AUSTR E-mail address: pct@ipaustralia.gov.au	. :	R No. (02) 6283 2263	

International application No.

PCT/AU2004/001522

ox	No. I Basis of the report
	With regard to the language, this report is based on:
	The international application in the language in which it was filed
	A translation of the international application into , which is the language of a translation furnished for the purposes of:
	international search (under Rules 12.3(a) and 23.1 (b))
	publication of the international application (under Rule 12.4(a))
	international preliminary examination (Rules 55.2(a) and/or 55.3(a))
•	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): the international application as originally filed/furnished
	X the description:
	pages 1-5,7-36 as originally filed/furnished
	pages* 6 received by this Authority on 23 December 2005 with the letter of 23 December 2005 pages* received by this Authority on with the letter of
	X the claims:
	pages as originally filed/furnished
	pages* as amended (together with any statement) under Article 19 pages* 37-45 received by this Authority on 7 September 2005 with the letter of 7 September 2005
	pages* 37-45 received by this Authority on 7 September 2005 with the letter of pages* received by this Authority on with the letter of
	X the drawings:
	pages 1/8-8/8 as originally filed/furnished
	pages* received by this Authority on with the letter of pages* received by this Authority on with the letter of
	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos.
	the drawings, sheets/figs
	the sequence listing (specify):
	any table(s) related to the sequence listing (specify):
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
	the description, pages
	the claims, Nos.
	the drawings, sheets/figs
	the sequence listing (specify):
	any table(s) related to the sequence listing (specify):
*	If item 4 applies, some or all of those sheets may be marked "superseded."

International application No.

·	PCT/AU2004/001522
No. II Priority	
This report has been established as if no priority had been claimed due to t limit the requested:	he failure to furnish within the prescribed time
copy of the earlier application whose priority has been claimed (Rule	66.7(a)).
translation of the earlier application whose priority has been claimed.	(Rule 66.7(b)).
This report has been established as if no priority had been claimed due to invalid (Rule 64.1). Thus for the purposes of this report, the international the relevant date.	the fact that the priority claim has been found filing date indicated above is considered to be
Additional observations, if necessary:	
The right to the priority date was considered and found to be valid.	

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No. III	
The que	estions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be ally applicable have not been examined in respect of:
☐ tl	ne entire international application
X · c	laims Nos: 1-60 (in part)
becaus	se:
t r	he said international application, or the said claims Nos. elate to the following subject matter which does not require an international preliminary examination (specify):
	the description, claims or drawings (indicate particular elements below) or said claims Nos.
	are so unclear that no meaningful opinion could be formed (specify):
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed (specify)
X	no international search report has been established for said claim Nos. 1-60 (in part)
	A meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:
	Furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it.
	Furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it.
	Pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b) and 13ter.2.
	A meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Preliminary Examining Authority in a form and manner acceptable to it
	the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
	See Supplemental Box for further details.

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

citations and explanations supporting such statement				
 Statement	•			
Novelty (N)	Claims 1-6	60	. YES	
	Claims		NO	
Inventive step (IS)	Claims 1-6	60	YES	
•	Claims		NO	
Industrial applicability (IA)	Claims 1-6	50	YES	
	Claims		NO	

2. Citations and explanations (Rule 70.7)

The following documents identified in the International Search Report have been considered for the purposes of this report:

D1	EP 1 035 414	D7	PEIR et al
D2	WERTHÉN M et al	D8	WU S J et al
D3	MOORE N et al	D9	VAUGHN D W et al
D4	LEA P et al	D10	BASTHOLM L et al
D5	PAEK SH et al	D11	WO 2003/020204
D6	HAFTEK M et al		

Claims 1-60

No individual citation or obvious combination of citations disclose the features of the claims.

With regard to the document(s) listed in Box VI under "certain documents cited", these are documents published prior to the international filing date but later than the priority date claimed but which would otherwise be considered to be of particular relevance.

Under the PCT, novelty is considered only in respect of documents published before the priority date. The relevance of a document published after the priority date is dependent upon national law. Such documents are excluded from consideration in preliminary examination, under the PCT Guidelines but have been included here for information.

Non-patent Literature P Category Documents

These documents may be relevant if there is a priority issue with the application:

- P, X PIEPER-FÜRST U et al.: Analytical Biochemistry (1 September 2004) 332 (1) pp 160-167
- P, X ZHOU P et al.: Journal of Agricultural and Food Chemistry, (14 July 2004), 52 (14), pp 4355-4359

Industrial Applicability (IA)

The invention defined in the claims is considered to meet the requirements of Industrial Applicability under Article 33(4) of the PCT because it can be made by, or used in, industry.

International application No.

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ox No. VI Certain	documents cited
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Certain published documents (Rule 70.10)

Application No. Patent No. P, X WO 2004/014220	Publication date (<u>(day/month/year)</u> 19 February 2004	Filing date (day/month/year) 12 August 2003	Priority date (valid claim) (day/month/year) 13 August 2002
P, X WO 2003/105899	24 December 2003	11 June 2003	13 June 2002
P, X WO 2003/093793	13 November 2003	30 April 2003	1 May 2002

VO 2004/014220 discloses a marker-antibody-protein-antibody complex in the detection of PAMG-1 protein, which is noompassed by the claims.

VO 2003/105899 discloses a colloidal gold – antibody-protein complex in a method for detecting CSF specific roteins (including using "indirect" and "indirect sandwich" ELISA), which is encompassed by the claims.

WO 2003/093793 discloses a detection method that assembles a functional moiety, which provides an effector function is a labelling moiety, that is encompassed by the claims.

2.	Non-written	disclosures	(Rule 70.9)	
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Kind of non-written disclosure

Date of non-written disclosure (day/month/year)

Date of written disclosure referring to non-written disclosure (day/month/year)